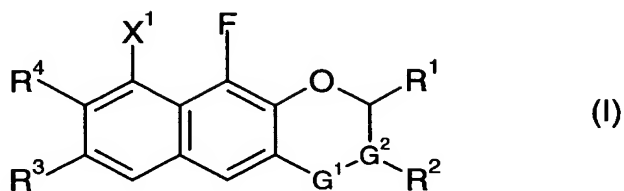


## Abstract

## Fluorinated oxaanthracenes and their use in liquid-crystal mixtures

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## Compounds of the formula (I)



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where:

 $X^1$  is H or F $G^1-G^2$  is  $-CH_2-CH-$  or  $CH=C-$ 15  $R^1, R^2$  are

a) H

b) the  $M^2-A^2-R^5$  moiety

c) for example, a straight-chain or branched alkyl radical having from 1 to 16 carbon atoms

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 $R^3$  and  $R^4$  are each, for example, H, the  $M^2-A^2-R^5$  moiety or a straight-chain or branched alkyl or alkyloxy radical having from 1 to 16 carbon atoms $A^2$  is, for example, 1,4-phenylene,

25 with the provisos that

a) when  $R^2$  is not H,  $R^1$  and  $R^3$  have to be H,b) when  $R^2$  is H,  $R^4$  must not have the definitions c) or d),c)  $R^1, R^2, R^3$  and  $R^4$  must not at the same time be H.